## APPENDIX B

## PENDING CLAIMS

	TENDING CERTIFIE				
1	1. (As filed) A method of treating a neoplasia in a mammal, said				
2	method comprising administering to said mammal a serum-stable nucleic acid-lipid				
3	particle comprising a nucleic acid portion that is fully encapsulated within the lipid				
4	portion, wherein said administration is by injection at an injection site that is distal to said				
5	neoplasia in said mammal.				
1	2. (As filed) A method of treating a neoplasia in a mammal in				
2	accordance with claim 1, wherein said nucleic acid comprises an expressible gene.				
1	3. (As filed) A method of treating a neoplasia in a mammal in				
2	accordance with claim 2, wherein said expressible gene encodes a member selected from				
3	the group consisting of therapeutic polypeptides and therapeutic polynucleotides.				
1	4. (Once amended) A method of treating a neoplasia in a mammal in				
2	accordance with claim 2, wherein said gene is heterologous.				
1	5. (As filed) A method of treating a neoplasia in a mammal in				
2	accordance with claim 3, wherein said gene is a member selected from the group				
3	consisting of genes encoding suicide enzymes, toxins and ribozymes.				
1	6. (Once amended) A method of treating a neoplasia in a mammal in				
2	accordance with claim 2, wherein said gene encodes a member selected from the group				
3	consisting of herpes simplex virus thymidine kinase (HSV-TK), cytosine deaminase,				
4	xanthine-guaninephosphoribosyl transferase, purine nucleoside phosphorylase,				
5	cytochrome P450 2B1.				
1	7. (As filed) A method of treating a neoplasia in a mammal in				
2	accordance with claim 2, wherein said gene is homologous.				

1	8. (As filed) A method of treating a neoplasia in a mammal in		
2	accordance with claim 2, wherein said gene encodes a member selected from the group		
3	consisting of proto-oncogenes, cytokines, immune stimulatory proteins and anti-		
4	angiogenic proteins.		
1	9. (As filed) A method of treating a neoplasia in a mammal in		
2	accordance with claim 2, wherein said gene is a member selected from the group		
3	consisting of IL-2, IL-12, IL-15 and GM-CSF.		
1	10. (As filed) A method of treating a neoplasia in a mammal in		
2	accordance with claim 2, wherein a therapeutically effective amount of said gene is		
3	generated at said neoplasia.		
1	11. (As filed) A method of treating a neoplasia in a mammal in		
2	accordance with claim 1, wherein said nucleic acid-lipid particle comprises a		
3	protonatable lipid having a pKa in the range of about 4 to about 11.		
1	12. (As filed) A method of treating a neoplasia in a mammal in		
2	accordance with claim 11, wherein said protonatable lipid is a member selected from the		
3	group consisting of DODAC, DODAP, DODMA, DOTAP, DOTMA, DC-Chol, DMRIE,		
4	DSDAC and mixtures thereof.		
1	13. (As filed) A method of treating a neoplasia in a mammal in		
2	accordance with claim 1, wherein said nucleic acid-lipid particle comprises a lipid		
3	conjugate that prevents aggregation during formulation.		
1	14. (As filed) A method of treating a neoplasia in a mammal in		
2	accordance with claim 13, wherein said lipid conjugate is a member selected from the		

group consisting of PEG-lipids and PAO-lipids.

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1	15. (As filed) A method of treating a neoplasia in a mammal in			
2	accordance with claim 13, wherein said lipid conjugate is reversibly associated with an			
3	outer lipid monolayer, and wherein said lipid conjugate exchanges out of said outer lipid			
4	monolayer at a rate faster than PEG-CerC20.			
1	16. (As filed) A method of treating a neoplasia in a mammal in			
2	accordance with claim 1, wherein said nucleic acid-lipid particle is substantially devoid			
3	of detergents and organic solvents.			
1	17. (As filed) A method of treating a neoplasia in a mammal in			
2	accordance with claim 1, wherein a therapeutically effective amount of said nucleic acid-			
3	lipid particle accumulates at said neoplasia.			
1	18. (As filed) A method of treating a neoplasia in a mammal in			
2	accordance with claim 1, wherein a therapeutic effect is detected at the site of said			
3	neoplasia.			
1	19. (As filed) A method of treating a neoplasia in a mammal in			
2	accordance with claim 17, wherein said therapeutically effective amount comprises			
3	greater than about 0.5% of an administered dose.			
1	20. (As filed) A method of treating a neoplasia in a mammal in			
2	accordance with claim 1, wherein said nucleic acid-lipid particle has a diameter of about			
3	50 nm to about 200 nm.			
1	21. (As filed) A method of treating a neoplasia in a mammal in			
2	accordance with claim 20, wherein said nucleic acid-lipid particle has a diameter of about			
3	60 nm to about 130 nm.			
1	22. (As filed) A method of treating a neoplasia in a mammal in			

accordance with claim 20, wherein said nucleic acid-lipid particles are of a uniform size.

1	23. (As filed) A method of treating a neoplasia in a mammal in		
2	accordance with claim 1, wherein said nucleic acid-lipid particle has a nucleic acid to		
3	lipid ratio of greater than about 3 mg nucleic acid to mmole of lipid.		
1	24. (As filed) A method of treating a neoplasia in a mammal in		
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2	accordance with claim 23, wherein said particle has a nucleic acid to lipid ratio of greater		
3	than about 14 mg nucleic acid to mmole of lipid.		
1	25. (As filed) A method of treating a neoplasia in a mammal in		
2	accordance with claim 23, wherein said particle has a nucleic acid to lipid ratio of greater		
3	than about 25 mg nucleic acid to mmole of lipid.		
1	26. (As filed) A method of treating a neoplasia in a mammal in		
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2	accordance with claim 1, wherein said nucleic acid remains at least 90% intact when said		
3	particle containing about 1 $\mu$ g DNA is treated with about 100 U DNAse 1 in digestion		
4	buffer at 37°C for 30 min.		
1	28. (As filed) A method of treating a neoplasia in a mammal in		
2	accordance with claim 1, wherein said administering is performed at least once per eight		
3	weeks.		
1	35. (New) A method of treating a neoplasia in a mammal, in		
2	accordance with claim 5, wherein said gene encodes a suicide enzyme.		
1	36. (New) A method of treating neoplasia in a mammal in accordance		
1	· ,		
2	with claim 35, further comprising administering a prodrug.		
1	37. (New) A method of treating a neoplasia in a mammal in		
2	accordance with claim 36, wherein said prodrug is administered after the serum-stable		
3	nucleic acid-lipid particle.		

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1	38.	(New) A method of treating a neoplasia in a mammal in	
2	accordance with claim 36, wherein said prodrug is administered before the serum-stable		
3	nucleic acid-lipid particle.		
1	39.	(New) A method of treating a neoplasia in a mammal in	
2		m 9, further comprising administering a chemotherapeutic agent.	
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1	40.	(New) A method of treating a neoplasia in a mammal in	
2	accordance with claim 39, wherein the chemotherapeutic agent is administered after the		
3	serum-stable nucleic acid-lipid particle.		
1	41.	(New) A method of treating a neoplasia in a mammal in	
2	accordance with claim 39, wherein the chemotherapeutic agent is administered before the		
3	serum-stable nucleic acid-lipid particle.		
1	42.	(New) A method of treating a neoplasia in a mammal in	
2	accordance with clai	m 1, wherein the lipid portion comprises a cationic lipid and a	
3	neutral lipid.		
1	43.	(New) A method of treating a neoplasia in a mammal in	
2	accordance with clai	m 42, wherein the cationic lipid is DODAC.	
1	44.	(New) A method of treating a neoplasia in a mammal in	
2		m 42, wherein the neutral lipid is DOPE.	
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1	45.	(New) A method of treating a neoplasia in a mammal in	
2	accordance with clai	m 42, wherein the lipid portion further comprises a PEG-lipid.	
1	46.	(New) A method of treating a neoplasia in a mammal in	

accordance with claim 42, wherein the lipid portion further comprises cholesterol.

1	47. (New) A method of treating a neoplasia in a mammal, said method				
2	comprising administering to said mammal a serum-stable nucleic acid-lipid particle				
3	comprising a nucleic acid portion that is fully encapsulated within the lipid portion,				
4	wherein said administration is by injection at an injection site that is distal				
5	to said neoplasia in said mammal; and				
6	wherein said neoplasia is responsive to the gene product of the nucleic				
7	acid.				
1	48. (New) A method of treating a neoplasia in a mammal, said method				
2	comprising administering to said mammal a serum-stable nucleic acid-lipid particle				
3	comprising a nucleic acid portion that is fully encapsulated within the lipid portion,				
4	wherein said administration is by injection at an injection site that is distal				
5	to said neoplasia in said mammal; and				
6	wherein cells of said neoplasia are transfectable by said nucleic acid-lipid				
7	particle.				
1	49. (New) The method of claim 47, wherein said nucleic acid encodes				
2	a member selected from the group consisting of: suicide enzymes, toxins, tumor				
3	suppressor genes, and cytokines.				
1	50. (New) The method of claim 47, wherein said nucleic acid encodes				
2	a suicide enzyme.				
1	51. (New) The method of claim 47, wherein said nucleic acid encodes				
2	a toxin.				
1	52. (New) The method of claim 47, wherein said nucleic acid encodes				
2	a tumor suppressor protein.				
1	53. (New) The method of claim 47, wherein said nucleic acid encodes				
2	a cytokine.				

1		54.	(New) The method of claim 50, wherein the suicide enzyme is a
2	member select	ted from	the group consisting of: HSV-TK, purine nucleoside
3	phosphorylase	, and cy	rtosine deaminase.
1		55.	(New) The method of claim 50, wherein the neoplasia is
2	melanoma.		
1 2	cancer.	56.	(New) The method of claim 50, wherein the neoplasia is colorectal
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1		57.	(New) The method of claim 50, wherein the neoplasia is sarcoma.
1		58.	(New) The method of claim 51, wherein the toxin is <i>Pseudomonas</i>
2	exotoxin.		•
1		59.	(New) The method of claim 51, wherein the tumor suppressor
2	protein is apop	otin.	
1		60. ·	(New) The method of claim 51, wherein the cytokine is IL-12.
1		61.	(New) The method of claim 51, wherein administration of the
2	serum-stable nucleic acid-lipid particle is intravenous.		